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PRELIMINARY ASSESSMENT/  
VISUAL SITE INSPECTION

JOHNSON FIRE PROOF DOOR CO , INC  
(FORMERLY FANSTEEL, INC ,  
VR WESSON DIVISION)  
LAKE BLUFF, ILLINOIS  
ILD 010 224 335

FINAL REPORT

Prepared for

U S ENVIRONMENTAL PROTECTION AGENCY  
Office of Waste Programs Enforcement  
Washington, DC 20460

Work Assignment No	C05087
EPA Region	5
Site No	ILD 010 224 335
Date Prepared	March 22, 1993
Contract No	68-W9-0006
PRC No	009 C05087IL7H
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EPA Region 5 Records Ctr



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## EXECUTIVE SUMMARY

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Resource Applications, Inc. (RAI) performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from solid waste management units (SWMU) and other areas of concern (AOC) at the Johnson Fire Proof Door Co., Inc. (Johnson) facility in Lake Bluff, Lake County, Illinois. This summary highlights the results of the PA/VSI and the potential for releases of hazardous wastes or hazardous constituents from SWMUs and AOCs identified. In addition, a completed U.S. Environmental Protection Agency (EPA) Preliminary Assessment Form (EPA Form 2070-12) is included in Attachment A to assist in prioritizing RCRA facilities for corrective action.

The Johnson facility manufactures hollow, metal and stainless steel security doors and frames. The facility generates and manages waste paint (D001) and paint booth filters (D001). The facility has operated at its current location since 1987. The facility occupies 8 acres in a mixed-use industrial and commercial area and employs about 110 people. The facility's current regulatory status is that of a small-quantity generator of hazardous waste, storing wastes for less than 180 days. Fansteel, Inc., VR Wesson Division (Fansteel) operated at the facility from 1974 to 1986 and was regulated as a small-quantity generator of hazardous waste, storing the waste for greater than 90 days. Fansteel generated spent acetone (D001, F003) from the manufacture of carbide powder. Fansteel RCRA-closed the Former Acetone Storage Area (SWMU 1) and the Former Acetone Aboveground Storage Tank (AST) (SWMU 2) in 1986. IEPA approved closure on December 18, 1986, and Fansteel's RCRA Hazardous Waste Part A permit application was withdrawn. Fansteel shut down its operations in 1986 and sold the facility and property in 1987.

Mr. Norman Johnson purchased the facility and 8 additional acres of land. Another 20 acres that were part of the Fansteel site were purchased by William Knauz from Fansteel. No known waste management activities from Fansteel's operations took place on this 20-acre portion of the Fansteel site. The land purchased by William Knauz remains undeveloped.

The PA/VSI identified the following three SWMUs and one AOC at the facility:

Solid Waste Management Units

1. Former Acetone Storage Area
2. Former Acetone AST
3. Outdoor Storage Area

Area of Concern

1. Underground Storage Tank (UST)

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The potential for release to environmental media is low for SWMUs 1 and 2. SWMUs 1 and 2 managed waste indoors, on 8-inch-thick concrete. No releases from these units have been documented.

There is a low potential for release to ground water, surface water, and air for SWMU 3. There is a moderate potential for release to on-site soils. The Johnson facility currently uses SWMU 3 to manage waste paint (D001) and paint booth filters (D001) in 55-gallon drums, outdoors, on a 4-inch-thick concrete pad. There is a stormwater drain located 200 feet north of the unit. The area is not bermed, and any releases could migrate to on-site soils.

There is a moderate potential for release to ground water and on-site soils for AOC 1. Fansteel representatives had no known or documented information concerning the UST. It is not known what the UST stored. The release potential to air and surface water is low, since the UST is below grade.

The Johnson facility is made up of one building with an area of 85,000 square feet. The building is situated on a 8-acre parcel of land at 415 Skokie Highway, Lake Bluff, Illinois. Lake Bluff has population of about 3,400 people. The facility is bordered on the north by businesses; on the west by Skokie Highway; on the south by a field, a pond, and Skokie Highway; and on the east by railroad tracks. The nearest residential area is located 0.6 mile northwest of the facility. The nearest school, Forest Bluff Elementary School, is located 1 mile west of the facility. The facility has locked entrances and all visitors are required to check in at the south entrance. An 8-foot-high fence protects outdoor storage area.

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The nearest surface water body, an unnamed pond, is located about 900 feet south of the Johnson facility, and is used for stormwater drainage purposes. Ground water is used as an industrial and drinking water source. The nearest private residence drinking water well is located at 2 Eva Terrace, 0.5 mile west and upgradient of the facility. The nearest industrial well is located at 300 Rockland Road, 0.7 mile west of the facility. Most of the Village of Lake Bluff receives its drinking water from Lake Michigan. The nearest sensitive environment, the unnamed pond, is a wetland classified as palustrine open water, intermittently exposed, and excavated, located 900 feet south of the Johnson facility on the undeveloped 20-acre portion of land formerly owned by Fansteel.

RAI recommends that waste paint (D001) managed at SWMU 3 be placed within the fenced area and also that the concrete pad be bermed. RAI also recommends confirming the presence of the UST (AOC 1) and sampling the contents if the UST contains any material, conducting a tightness test on the UST, and then, depending on the results of the tightness test, possibly following up with soil sampling. RAI also recommends removal and closure of the UST. RAI recommends no further action at this time for SWMUs 1 and 2.

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## 1 0 INTRODUCTION

PRC Environmental Management, Inc (PRC) received Work Assignment No C05087 from the U S Environmental Protection Agency (EPA) under Contract No 68 W9 0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5 Resource Applications, Inc (RAI), TES 9 team member provided the necessary assistance to complete the PA/VSI activities for the Johnson Fire Proof Door Co Inc (Johnson) facility

As part of the EPA Region 5 Environmental Priorities Initiative the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities The PA/VSI is the first step in the process of prioritizing facilities for corrective action Through the PA/VSI process enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC)

A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste

The SWMU definition includes the following

- RCRA-regulated units such as container storage areas tanks surface impoundments, waste piles land treatment units, landfills incinerators and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that EPA has usually exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents Such areas might include a wood preservative drippage area a loading or unloading area, or an area where solvent used to wash large parts has continually dripped onto soils

An AOC is defined as any area where a release to the environment of hazardous waste or constituents has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. This includes any area where strong possibility exists that such a release might occur in the future.

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility
- Obtain information on the operational history of the facility
- Obtain information on releases from any units at the facility
- Identify data gaps and other informational needs to be filled during the VSI

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA
- Identify releases not discovered during the PA
- Provide a specific description of the environmental setting
- Provide information on release pathways and the potential for releases to each environmental medium
- Confirm information obtained during the PA regarding operations, SWMUs, AOCs, and releases

The VSI includes interviewing appropriate facility staff, inspecting the entire facility to identify all SWMUs and AOCs, photographing all visible SWMUs, identifying evidence of releases, making a preliminary selection of potential sampling parameters and locations, if needed, and obtaining additional information necessary to complete the PA/VSI report.



This report documents the results of a PA/VSI of the Johnson facility (EPA Identification No ILD 010 224 335) in Lake Bluff Lake County, Illinois Fansteel Inc VR Wesson Division (Fansteel) operated at the site prior to Johnson The PA was completed on October 21 1992 RAI gathered and reviewed information from the Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files The VSI was conducted on October 22 1992 It included interviews with facility representatives and a walk-through inspection of the facility RAI identified three SWMUs and one AOC at the facility RAI also reviewed relevant publications from the Federal Emergency Management Agency (FEMA), National Oceanic and Atmospheric Administration (NOAA), U S Department of Commerce (USDC), U S Department of Interior (USDI) U S Geological Survey (USGS), and U S Department of Agriculture (USDA)

RAI completed EPA Form 2070 12 using information gathered during the PA/VSI This form is included as Attachment A The VSI is summarized and seven inspection photographs are included in Attachment B Field notes from the VSI are included in Attachment C

## 2 0 FACILITY DESCRIPTION

This section describes the facility's location, past and present operations, waste generating processes and waste management practices, a history of documented releases, regulatory history, environmental setting, and receptors.

### 2 1 FACILITY LOCATION

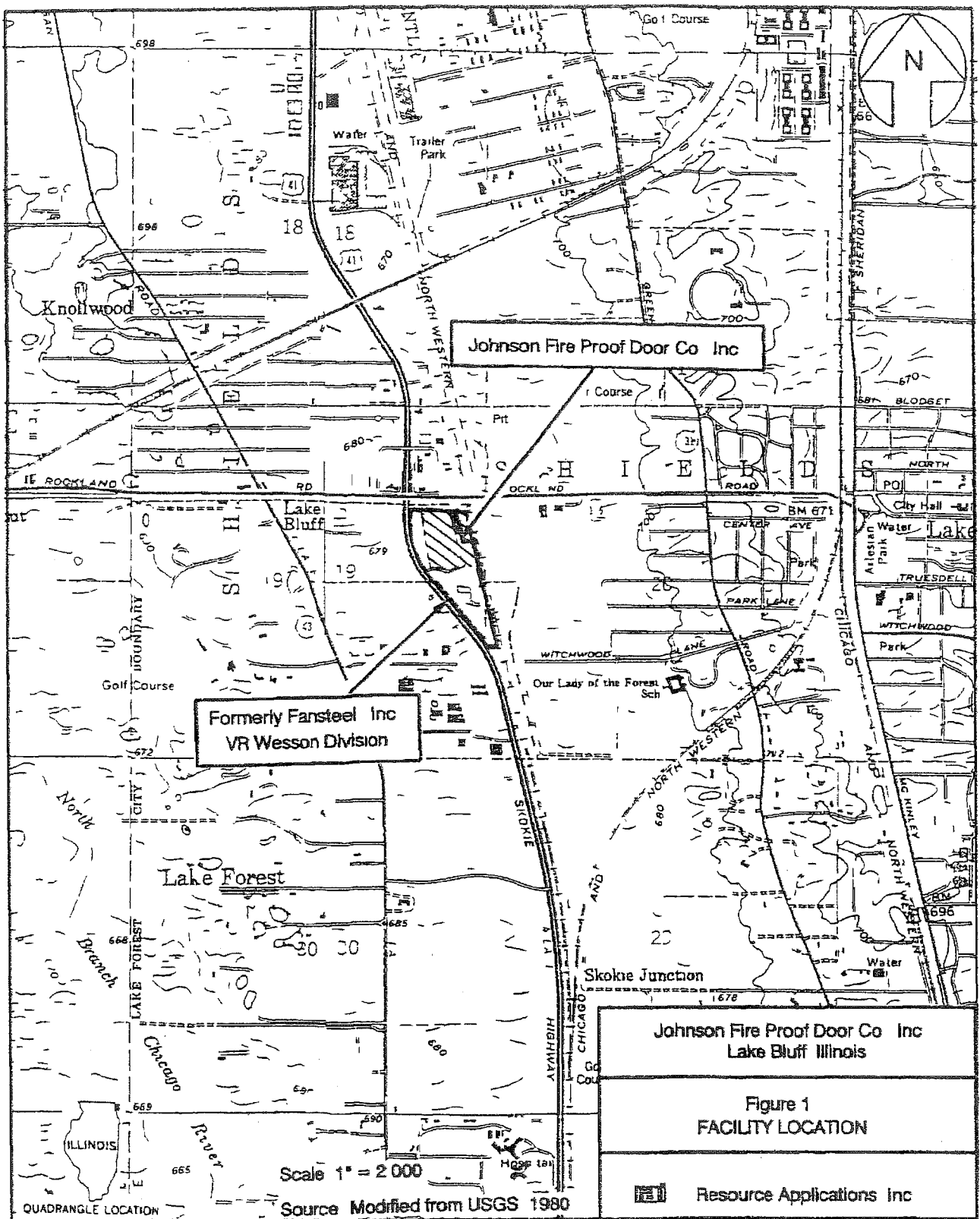
The Johnson facility, located at 415 Skokie Highway, is in Lake Bluff, Lake County, Illinois (latitude 42°15'36" N and longitude 87°52'30" W) (Fansteel, 1980). The facility occupies 8 acres in a mixed use, industrial, and commercial area. The facility location and its relationship to surrounding topographic features is shown in Figure 1.

The Johnson facility is bordered on the north by businesses, on the west by the Skokie Highway, on the south by a field, a pond, and the Skokie Highway, and on the east by railroad tracks.

### 2 2 FACILITY OPERATIONS

The Johnson facility manufactures hollow metal security and stainless steel doors and frames. Johnson receives steel sheets and cuts them to size. The steel sheets are then soldered and stamped on both sides. The doors are then conveyed by hooks to the spray paint booth where they are spray painted with a zinc oxide based paint. When the doors are dry, hardware is attached and the doors are stacked for shipment. Scrap steel is collected in 10-cubic yard steel dumpsters and sold to Tramolta of Itasca, Illinois, for recycling.

Johnson has operated at the facility since 1987 and employs about 110 people. One 85,000 square foot main building houses all of Johnson's operations and offices. Offices are located on the south side of the main building. Parking lots are located to the south and west side of the main building. Solid wastes generated from facility operations and the SWMUs where they are managed are discussed in detail in Section 2.3.



Fansteel operated the site from 1974 to 1986. Fansteel produced varying grades of carbide powder which was then sold to companies which manufactured cutting tools and metal working parts. Spent acetone (D001 F003) was generated from cleaning tools. Fansteel operated as a warehouse during the 1980s because of reduced operations. In 1987, Mr. Norman Johnson purchased the facility and 8 additional acres of land. Mr. William Knauz purchased the remaining 20 acres of land (this land remains undeveloped). No known waste management activities from Fansteel's operations took place on this 20-acre portion of the Fansteel site. Fansteel representatives had neither knowledge nor documentation regarding facility land usage prior to 1974 (Fansteel 1992).

Fansteel operated a distillation system to recover acetone. Fansteel representatives had neither knowledge nor documentation regarding the distillation system. Fansteel discontinued using the distillation system prior to 1982. In a September 16, 1982 inspection report, an IEPA inspector noted that Fansteel began using a 700 gallon aboveground storage tank (AST) the Former Acetone AST (SWMU 2), to store spent acetone for greater than 90 days (IEPA 1982a). The AST was formerly part of the distillation system.

## 2.3 WASTE GENERATION AND MANAGEMENT

Wastes are generated and managed at various locations throughout the facility. SWMUs and their current status are identified in Table 1. The locations of SWMUs and the AOC in relation to the facility layout are shown in Figure 2. Present wastes generated by Johnson and past wastes generated by Fansteel at the facility are summarized in Table 2. SWMUs are discussed in detail in Section 3.0. Facility generation and management of both hazardous and nonhazardous wastes are discussed below.

The primary waste streams currently generated at the facility are waste paint (D001) and paint booth filters (D001), generated from the paint booth during normal manufacturing processes. Excess paint from the paint spraying operation is placed in a 55 gallon steel drum and managed at the Outdoor Storage Area (SWMU 3). About 940 gallons of waste paint (D001) is generated annually. Scout Transportation Company of Tulsa, Oklahoma, transports this waste to Chief Supply Corporation of Hoskell, Oklahoma, for treatment.

TABLE 1  
SOLID WASTE MANAGEMENT UNITS

<u>SWMU Number</u>	<u>SWMU Name</u>	<u>RCRA Hazardous Waste Management Unit<sup>a</sup></u>	<u>Status</u>
1	Former Acetone Storage Area	Yes	Inactive RCRA closed in 1986
2	Former Acetone AST	Yes	Removed RCRA closed in 1986
3	Outdoor Storage Area	No	Active less than 180-day storage of hazardous wastes

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Note

<sup>a</sup> A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application

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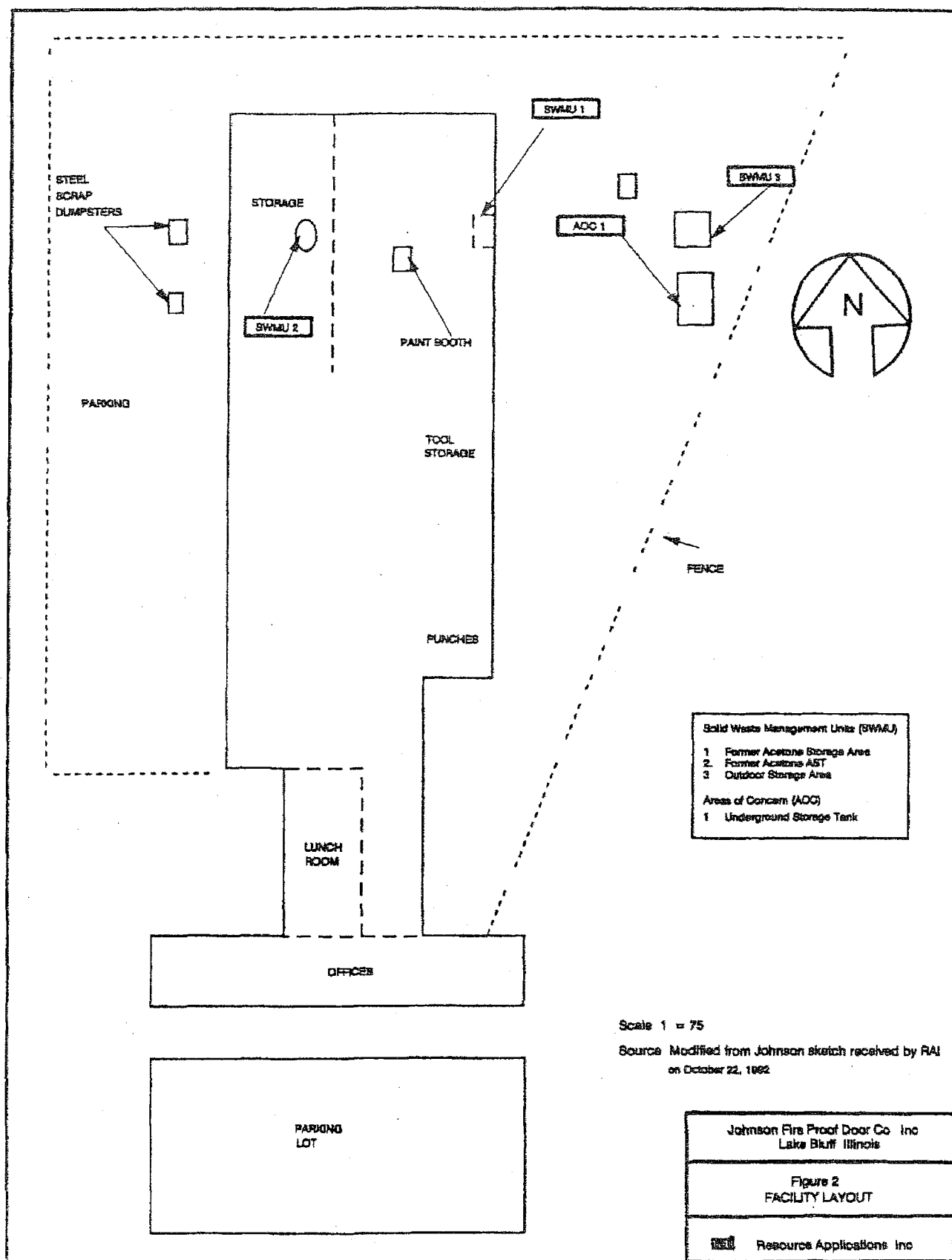


TABLE 2  
SOLID WASTES

<u>Waste/EPA Waste Code</u>	<u>Source</u>	<u>Solid Waste Management Unit</u>
Waste paint/D001	Painting operations	3
Paint booth filters/D001	Painting operations	3
Spent acetone/D001 F003*	Cleaning operations	1 and 2

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Notes

\* Waste is no longer generated

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The paint booth filters are replaced every 2 to 3 weeks. The paint booth filters (D001) are placed in a 55-gallon drum with waste paint (D001) and are included in the 940 gallons of waste paint which is generated annually. This waste is managed at SWMU 3 and is also transported by Scout Transportation Company to Chief Supply Corporation of Hoskell, Oklahoma.

In the past, Fansteel generated spent acetone (D001, F003) from cleaning tools. The spent acetone (D001, F003) was managed in 55 gallon drums at the Former Acetone Storage Area (SWMU 1). Spent acetone was also managed in the Former Acetone AST (SWMU 2). About 3,000 gallons of this waste was generated annually. Hydrite Chemical Company transported this waste to its facility in Milwaukee, Wisconsin for disposal.

#### 2.4 HISTORY OF DOCUMENTED RELEASES

No known releases from this facility have been documented.

#### 2.5 REGULATORY HISTORY

Fansteel's Notification of Hazardous Waste Activity form was not found in IEPA or EPA files. Fansteel submitted a RCRA Hazardous Waste Part A permit application on November 12, 1980 (Fansteel, 1980). This application listed one storage container (S01) (SWMU 1) and one other (T04) unit. SWMU 1 was listed with a capacity of 5,500 gallons and SWMU 2 was listed with a 72,000 gallons per-day capacity. The T04 unit was an acetone distillation system that included a 700 gallon AST (SWMU 2) that was later used to store spent acetone (D001, F003). F003 was the only listed waste on the application.

Fansteel was regulated as an Interim Status Standards (ISS) storage facility storing hazardous wastes for greater than 90 days. IEPA approved the May 21, 1986 closure plan for SWMUs 1 and 2 on August 11, 1986 (IEPA, 1986a). SWMUs 1 and 2 were RCRA closed with IEPA approval and Fansteel's RCRA Hazardous Waste Part A permit application was withdrawn on December 18, 1986 (IEPA, 1986b). Fansteel then shut down operations and sold the facility.



Johnson submitted a Notification of Regulated Waste Activity form to EPA on November 25 1991 (Johnson, 1991) This application listed D001 and F003 hazardous wastes A Johnson facility representative stated during the VSI that a F003 waste was never generated from their operations However, the facility has not submitted a revised Notification of Regulated Waste Activity form Johnson is regulated as a small quantity generator storing hazardous waste for less than 180 days

IEPA conducted an Interim Status Standards inspection at Fansteel on September 16, 1982 (IEPA 1982a) The IEPA inspector noted during the inspection that the contingency plan lacked a list of emergency equipment (IEPA, 1982b) Fansteel responded by adding an emergency equipment list and sending it to IEPA on October 11, 1982 (Fansteel 1982) No letter from IEPA stating that the violation was resolved was in IEPA or EPA's files

IEPA sent a Compliance Inquiry Letter to Fansteel on April 17, 1984 because Fansteel had failed to submit a 1983 Facility Annual Hazardous Waste Report to IEPA (IEPA, 1984) Fansteel sent the Facility Annual Hazardous Waste Report on April 24, 1984 (Fansteel, 1984) However within IEPA or EPA files no letter from IEPA stating that the violation was resolved was found

Fansteel was sent another Compliance Inquiry Letter on May 19 1987 for failing to submit a 1986 Facility Annual Hazardous Waste Report (IEPA, 1987a) Fansteel was sent an In Compliance Letter on June 10, 1987 stating IEPA had received Fansteel's June 1 1987 response and resolved the violation regarding the 1986 Facility Annual Hazardous Waste Report The In Compliance Letter also stated that Fansteel had failed to submit a Generator Annual Hazardous Waste Report (IEPA 1987b) No letter from IEPA stating that the violation for failing to submit a Generator Annual Hazardous Waste Report was resolved was found in IEPA or EPA files

The facility is not required to have operating air permits The facility has no history of odor complaints from area residents The facility does not have a National Pollutant Discharge Elimination System (NPDES) permit

Johnson does not use any underground storage tanks (UST) at the facility However, during the VSI vent piping from a UST was observed on the east side of the facility The Johnson facility

representative stated it has been there since Johnson bought the facility in 1987. The construction capacity and use of the UST is not known.

No CERCLA activity has been performed at this site.

## **2.6 ENVIRONMENTAL SETTING**

This section describes the climate, flood plain and surface water, geology and soils, and ground water in the vicinity of the facility.

### **2.6.1 Climate**

The climate in Lake County is continental, characterized by frequent changes in temperature, humidity, cloudiness, and wind direction. The average daily temperature is 51.4 degrees Fahrenheit (°F). The lowest average daily temperature is 31.3°F in February. The highest average daily temperature is 71.9°F in August (NOAA, 1990).

The total annual precipitation for the county is 43.12 inches (NOAA, 1990). The mean annual lake evaporation for the area is about 30 inches (USDC, 1968). The 1 year, 24 hour maximum rainfall is about 2.2 inches (USDC, 1963).

The prevailing wind is from the south. Average wind speed is highest in February at 14 miles per hour (NOAA, 1990).

### **2.6.2 Floodplain and Surface Water**

The Johnson facility is located outside the 500 year floodplain (FEMA, 1981).

The nearest surface water body, an unnamed pond, is located on the 20 acre portion of undeveloped land that was formerly part of the Fansteel site, about 900 feet south of the Johnson facility. The pond is used for stormwater drainage purposes.

On the northern side of the facility, surface water runoff flows to the northeast to stormwater drains located 100 feet to the north of the facility. The stormwater drains discharge into the Skokie Drainage Ditch which discharges into the north branch of the Chicago River. On the southern side of the facility, surface water runoff flows to the west and then south to an unnamed pond located 900 feet south of the facility.

Other surface water bodies in the area include Lake Michigan located 2 miles east of the facility. The north branch of the Chicago River is located 1.2 miles southwest of the facility.

### 2.6.3 Geology and Soils

The facility is almost entirely underlain by Made land, which consists of areas where cutting, filling, and grading associated with construction activities have resulted in obscuring the original nature of the soils. Less altered areas of the facility are underlain by Ashkum silty clay loam. The surface layer is black silty clay loam about 12 inches thick. The subsoil is about 38 inches thick and consists predominantly of dark grayish brown, firm silty clay loam, becoming yellowish brown and calcareous in the lower part. The underlying material is mixed grayish brown and yellowish brown, compact, very firm, calcareous silty clay loam. Permeability is moderately slow (0.2 to 0.6 inch per hour), available moisture capacity is high (0.15 to 0.2 inch of water per inch of soil), and organic matter content is high (USDA, 1970).

No site specific geologic information was available, thus regional information is presented here. In the vicinity of the site, the uppermost unconsolidated deposits, or drift, consist of Pleistocene gray clayey and silty clayey till of the Blodgett Moraine. This unit is part of the Lake Border Morainic System, which is in turn a division of the Wadsworth Member of the Wedron Formation. These moraines are relatively low in pebble and cobble content and are commonly mantled by 1 to 2 feet of windblown silt known as loess (Willman and Lineback, 1970). Approximately 200 feet of drift overlies the uppermost consolidated bedrock unit which is a dolomite of Silurian age. In the Lake Bluff area, this dolomite ranges in composition from extremely argillaceous, silty and cherty to exceptionally pure, and in the vicinity of the site is approximately 200 feet thick. The Silurian dolomite is underlain by approximately 150 feet of Ordovician Maquoketa gray-brown shale with interbedded dolomite or limestone, 300 feet of Galena Platteville dolomite and

limestone, and 150 feet of Glenwood-St. Peter sandstone. The Prairie du Chien, Trempealeau, and Franconia Formations, straddling the Cambrian-Ordovician boundary, consist of dolomites with varying proportions of sandstone and shale, and total about 300 feet in thickness. The underlying Cambrian deposits are the Ironton-Galesville sandstone, the Eau Claire shale and siltstone, and the Mt. Simon sandstone, underlain by Precambrian crystalline rocks (Willman, 1971; Suter et al., 1959).

## 264 Ground Water

No site-specific ground water information was available; thus, regional information is presented here. Ground water is obtained from four major aquifer systems in northeastern Illinois: the glacial drift system, the shallow bedrock system, and two deep bedrock systems. They are distinguished by their hydrologic properties and recharge source areas (Hughes et al., 1966). In northeastern Lake County, possibilities are fair to good for the occurrence of water-bearing sand and gravel within the glacial drift, although supplies are localized and yield only farm or domestic supplies. Typical well depths are 35 to 100 feet (Bergstrom et al., 1955). The shallow bedrock aquifer system in the site vicinity underlies the glacial drift system and is comprised of the Silurian dolomite formations and underlying upper Ordovician shales. Water from this aquifer is obtained from fractures and solution openings in the Silurian dolomite beds (Hughes et al., 1966). Recharge is attained by percolation of local precipitation through the overlying glacial drift (Hughes et al., 1966).

The deep bedrock aquifer systems include the Cambrian-Ordovician aquifer system and the Mt. Simon aquifer system. The former comprises the Glenwood and St. Peter Formations of the middle Ordovician series and the Ironton and Galesville Sandstone formations of the late Cambrian. The top of the Cambrian-Ordovician aquifer is at the top of or within the middle Ordovician Galena Platteville dolomite; the bottom of the system is located in the impermeable shales and dolomites of the upper and middle parts of the Cambrian Eau Claire Formation. This aquifer system spans a thickness of approximately 500 feet (Hughes et al., 1966).

Within the Cambrian-Ordovician aquifer system, the Glenwood-St. Peter Sandstone unit is widely utilized as an aquifer where water requirements are less than 200 gallons per minute (gpm). This unit has a permeability of approximately 15 gallons per day per square foot (gpd/sq ft). The

Ironton Galesville Sandstone unit is the major producing unit in the Cambrian Ordovician aquifer because it has the most consistent permeability (35 gpd/sq ft) and thickness (200 ft) of the aquifers in northeastern Illinois. Recharge to the Cambrian-Ordovician aquifer system is mostly from western McHenry, Kane, and Kendall Counties where the rocks crop out at the surface or lie immediately below the glacial drift. Additional recharge occurs directly from leakage of precipitation downward through the shallow bedrock system (Hughes, et al, 1966).

The second deep bedrock aquifer system -- the Mt. Simon aquifer -- is bounded above by the relatively impermeable shales and dolomites of the upper and middle parts of the Eau Claire Formation (which act as an aquitard) and below by the crystalline Pre Cambrian basement. Although the Mt. Simon sandstone is nearly 1,700 feet thick, only the uppermost 275 feet yield potable water because below that depth the water is too highly mineralized for most purposes (Hughes et al, 1966). The average permeability of the Mt. Simon aquifer system is approximately 16 gpd/sq ft (Hughes, et al, 1966) and recharge is largely from the outcrop region of Cambrian rocks in central southern Wisconsin (Willman, 1971).

The Village of Lake Bluff receives its water from Lake Michigan at the Central Lake County Joint Action Water Agency located at 700 Blodgett Avenue in Lake Bluff, Illinois. The raw intake is located 0.25 mile into Lake Michigan. Private water wells exist in the Village of Lake Bluff; their locations and directions are: 2 Eva Terrace, residential well located 0.5 mile west of the facility; an industrial well for watering plants for Mariana Landscaping, 300 Rockland Road, located 0.7 mile west of the facility; 311 Signe Court located 1 mile north of the facility; Blodgett Avenue located 1.5 miles northeast of the facility; an unincorporated area on Forestview Drive located 1 mile northwest of the facility; and approximately 100 wells on Arden Shore Drive, located 2 miles north of the facility. The wells are all screened in glacial drift (Village of Lake Bluff 1992). Ground water flows east toward Lake Michigan, the ground water wells discussed above are located upgradient from the facility.

2.7

## RECEPTORS

The facility occupies 8 acres in a mixed use industrial and commercial area in Lake Bluff, Illinois. Lake Bluff has a population of about 3,400 people (Rand McNally and Company 1991).

The facility is bordered on the north by businesses on the west by Skokie Highway on the south by a field, pond and Skokie Highway, and on the east by railroad tracks. The nearest residential area is located about 0.6 mile northwest of the facility. The nearest school, Forest Bluff Elementary School, is located 1 mile west of the facility. (Figure 1 based on a 1980 USGS topographic map, shows Our Lady of the Forest School closest to the Johnson facility. However, according to representatives from the village of Lake Bluff, this school is now closed.) The facility has locked entrances and all visitors are required to check in at the south entrance. Eight foot high fencing protects the outdoor storage area.

The nearest surface water body, an unnamed pond, is located on the 20 acre portion of land formerly owned by Fansteel, about 900 feet south of the facility, and is used for water drainage purposes. Other surface water bodies in the area include Lake Michigan located 2 miles east of the facility. The north branch of the Chicago River is located 1.2 miles southwest of the facility.

Ground water is used as an industrial and drinking water source. The nearest private residential drinking water well is located at 2 Eva Terrace, 0.5 mile west of the facility. The nearest industrial water well is located at 300 Rockland Road, 0.7 mile west of the facility. Both of these wells are located upgradient from the facility.

Sensitive environments are located south of the facility on the 20-acre portion of land formerly owned by Fansteel. The nearest sensitive environment is an unnamed pond. The pond is a wetland, classified as palustrine open water, intermittently exposed, and excavated. The pond is located 900 feet south of the facility.

Other sensitive environments located within a 2 mile radius of the facility are a palustrine emergent seasonally flooded wetland located 0.25 mile to the west, a palustrine, forested broad leaved deciduous, temporarily flooded wetland located 0.75 mile to the north, and palustrine, emergent seasonally flooded wetlands located 0.75 mile to the south (USDI, 1981). Based on maps no other sensitive environments were found.

### 3 0    SOLID WASTE MANAGEMENT UNITS

This section describes the three SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of documented releases, and RAI's observations. Figure 2 shows the SWMU locations.

<b>SWMU 1</b>	<b>Former Acetone Storage Area</b>
Unit Description	The Former Acetone Storage Area was located indoors in the northeast corner of the facility. The unit measured 15 feet by 15 feet with an 8 inch-thick concrete floor and a permitted capacity of 5,500 gallons. No floor drains were present in this area of the building. Spent acetone (D001 F003) was managed in 55 gallon steel drums (see Photographs No. 1 and 2).
Date of Startup	This unit began operation 1974.
Date of Closure	This unit was RCRA closed in 1986 with IEPA approval and is no longer used for waste management activities.
Wastes Managed	Fansteel used this unit to manage spent acetone (D001 F003) in 55 gallon steel drums. Hydrite Chemical Company of Milwaukee, Wisconsin, disposed of this waste.
Release Controls	The unit was located indoors, on an 8-inch thick concrete floor. No floor drains were present in the area.
History of Documented Releases	No known releases from this unit have been documented.

Observations	The former location of SWMU 1 contained empty drums and a work bench during the VSI. No cracks were observed in the concrete floor and RAI noted no evidence of release.
SWMU 2	Former Acetone AST
Unit Description	The Former Acetone AST was located in the northwest corner of the facility on 8-inch thick concrete. The unit was a 700 gallon steel AST that was part of a solvent distillation system. Fansteel stopped using the distillation system and stored spent acetone (D001, F003) in the AST. No floor drains were present in this area of the building (see Photographs No. 3 and 4).
Date of Startup	This unit began operation prior to 1982.
Date of Closure	The 700-gallon AST was RCRA closed and removed in 1986.
Wastes Managed	This unit stored spent acetone (D001, F003) in a 700 gallon AST. Hydrite Chemical Company of Milwaukee, Wisconsin disposed of this waste.
Release Controls	The unit was located indoors, on an 8-inch thick concrete floor. No floor drains were present in the area.
History of Documented Releases	No known releases from this unit have been documented.
Observations	Unfinished steel doors were being stored in the former location of SWMU 2 during the VSI. No cracks were observed in the concrete floor and RAI noted no evidence of release.



**SWMU 3**

**Outdoor Storage Area**

**Unit Description**

The Outdoor Storage Area is located on the east side of the facility. The unit measures 16 feet by 20 feet and consists of a 4 inch thick concrete pad. A 6-foot high fence topped with barbed wire encloses a portion of the unit that stores empty drums. The west side of the area, outside of the fence, is where the waste paint (D001) and paint booth filters (D001) are managed (see Photograph No. 5). The nearest storm water drain is located 200 feet north of the unit.

**Date of Startup**

This unit began operation in 1987.

**Date of Closure**

This unit is active today.

**Wastes Managed**

This unit manages waste paint (D001) and paint booth filters (D001) in 55-gallon drums for less than 180 days. Scout Transportation Company of Tulsa, Oklahoma, transports this waste to Chief Supply Corporation of Hoskell, Oklahoma, for treatment.

**Release Controls**

The unit has no release controls.

**History of  
Documented Releases**

No known releases from this unit have been documented.

**Observations**

The unit contained 17 55-gallon drums of waste paint (D001) and paint booth filters (D001) during the VSI. All drums were closed and staining was not present. RAI noted no evidence of release. No cracks were visible in the concrete pad. However, drums were managed outside of the fenced area and one full drum was stored on its side rather than in an upright position.

#### 4 0 AREAS OF CONCERN

RAI identified one AOC during the PA/VSI. This AOC is discussed below. Its location is shown in Figure 2.

##### AOC 1

##### UST

The UST is located on the east side of the facility south of SWMU 3. Vent piping was still present and the Johnson facility representative stated the UST has been there since Johnson bought the facility in 1987. The age, capacity, materials stored, and construction of the UST is unknown. The area of the UST is approximately 40 feet by 20 feet (see Photographs No. 6 and 7). Facility representatives of Fansteel had no information concerning the UST (Fansteel 1992).

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## 5.0 CONCLUSIONS AND RECOMMENDATIONS

The PA/VSI identified three SWMUs and one AOC at the Johnson facility. Background information on the facility's location, operations, waste generation and management history of documented releases, regulatory history, environmental setting, and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, history of documented releases, and observed condition is presented in Section 3.0. The AOC is discussed in Section 4.0. Following are RAI's conclusions and recommendations for each SWMU and AOC. Table 3 at the end of this section summarizes the SWMUs and AOC at the facility and the recommended further actions.

### SWMU 1

#### Former Acetone Storage Area

#### Conclusions

The Former Acetone Storage Area managed spent acetone (D001, F003) in closed 55 gallon steel drums. The unit was RCRA closed with IEPA approval and has been inactive since 1986. The unit was located indoors, on an 8 inch thick concrete floor. No floor drains were present in the area of the unit.

The potential for release to all environmental media is low. No known releases have been documented from this unit. The location of former SWMU 1 contained empty drums and a work bench, and is no longer used for waste management activities.

#### Recommendations

RAI recommends no further action for this unit at this time.

### SWMU 2

#### Former Acetone AST

#### Conclusions

The Former Acetone AST was located indoors and consisted of a 700-gallon steel AST. The unit was part of a distillation system used to reclaim spent acetone and was later used to store spent acetone (D001, F003). The unit was RCRA closed and removed in 1986. No

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releases have been documented from this unit. Currently unfinished steel doors are being stored in the area.

The unit was located indoors on an 8-inch-thick concrete floor. No floor drains were present in the area of the unit. The potential for release to all environmental media is low.

Recommendations

RAI recommends no further action for this unit at this time.

SWMU 3

Outdoor Storage Area

Conclusions

The Outdoor Storage Area is located on the east side of the facility. The unit measures 16 feet by 20 feet and has a 4 inch thick concrete pad. The unit manages waste paint (D001) and paint booth filters (D001) in 55-gallon steel drums. A storm water drain is located 200 feet north of the unit.

The potential for release to ground water and surface water is low. The nearest storm water drain is located 200 feet north of the unit and discharges to the Skokie Drainage Ditch which discharges to the north branch of the Chicago River.

Drums are managed outside the fenced area of SWMU 3 on a 4 inch thick concrete pad. The potential for release to on site soils is moderate. There are no release controls except for the concrete pad to prevent a release from affecting on site soils. The release potential to air is low. Drums are stored closed.

Recommendations

RAI recommends the drums of waste paint (D001) and paint booth filters (D001) be managed within the fenced area of SWMU 3. RAI also recommends constructing a berm to contain releases from drums.

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AOC I

UST

#### Conclusions

The UST is located on the east side of the facility south of SWMU 3. Vent piping from the UST was observed during the VSI. Fansteel and Johnson representatives did not know the age, construction material, stored, or capacity of the UST. The area of the UST is approximately 40 feet by 20 feet.

The potential for release to ground water and on site soils is moderate. Fansteel and Johnson representatives have been unable to determine what material was stored in the UST. A leak in the UST could impact ground water and on-site soils. The potential for release to air and surface water is low since the unit is below grade.

#### Recommendations

RAI recommends confirming the presence of the UST, sampling contents if the UST contains any material, conducting a tightness test on the UST, and then depending upon the results of the tightness test possibly following up with soil sampling. RAI also recommends removal and closure of the UST.

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INITIALS

TABLE 3

## SWMU AND AOC SUMMARY

ENFORCEMENT  
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	<u>SWMU</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
1	Former Acetone Storage Area	1974 to 1986	None	No further action at this time
2	Former Acetone AST	Prior to 1982 to 1986	None	No further action at this time
3	Outdoor Storage Area	1987 to Present	None	RAI recommends the waste paint (D001) drums be managed in the fenced area of SWMU 3 and constructing a berm

	<u>AOC</u>	<u>Dates of Operation</u>	<u>Evidence of Release</u>	<u>Recommended Further Action</u>
1	UST	Unknown	None	RAI recommends confirming the presence of the UST sampling contents if the UST contains any material conducting a tightness test and then, depending on the results of the tightness test possibly following up with soil sampling RAI also recommends removal and closure of the UST

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**ATTACHMENT A**

**EPA PRELIMINARY ASSESSMENT FORM 2070 12**



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 SITE INFORMATION AND ASSESSMENT

I IDENTIFICATION

01 STATE IL 02 SITE NUMBER ILD 010 224 335

II SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Johnson Fire Proof Door Co. Inc.	02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER 415 Skokie Highway				
03 CITY Lake Bluff	04 STATE IL	05 ZIP CODE 80044	06 COUNTY Lake	07 COUNTY CODE	08 CONG. DIST.
09 COORDINATES LATITUDE 42 15 38 N		LONGITUDE 087 52 30 W			
10 DIRECTIONS TO SITE (Starting from nearest public road) From Chicago take Lake Shore Drive North to Route 41 North. Continue on Route 41 to Route 178 exit facility on corner.					

III RESPONSIBLE PARTIES

01 OWNER (If known) Norman Johnson	02 STREET (Business, mailing, residential) 415 Skokie Highway				
03 CITY Lake Bluff	04 STATE IL	05 ZIP CODE 80044	06 TELEPHONE NUMBER (708) 295 3800		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL (Agency name) <input type="checkbox"/> F OTHER <input type="checkbox"/> G UNKNOWN (Specify)					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A RCRA 3010 DATE RECEIVED 12 / 05 / 91 <input type="checkbox"/> B UNCONTROLLED WASTE SITE (CERCLA 103 d) DATE RECEIVED / / <input type="checkbox"/> C NONE MONTH DAY YEAR MONTH DAY YEAR					

IV CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply) <input checked="" type="checkbox"/> YES DATE 10 / 22 / 92 <input type="checkbox"/> NO <input type="checkbox"/> A EPA <input checked="" type="checkbox"/> B EPA CONTRACTOR <input type="checkbox"/> C STATE <input type="checkbox"/> D OTHER CONTRACTOR <input type="checkbox"/> E LOCAL HEALTH OFFICIAL <input type="checkbox"/> F OTHER (Specify) CONTRACTOR NAME(S) Resource Applications, Inc.		02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A ACTIVE <input type="checkbox"/> B INACTIVE <input type="checkbox"/> C UNKNOWN		03 YEARS OF OPERATION 1987 / Present BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR ALLEGED Johnson Fire Proof Door Co. Inc. currently generates waste paint (D001) and paint booth filters (D001). In the past, Fansteel Inc. generated spent acetone (D001, F003).					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION An Underground Storage Tank (AOC 1) is believed to be located on the east side of the facility. Facility representatives of the former owner, Fansteel Inc., have no information concerning the Underground Storage Tank.					

V PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2, Waste Information, and Part 3, Description of Hazardous Conditions and Incidents.)  
☒ A HIGH (Inspection required promptly) ☐ B MEDIUM (Inspection required) ☐ C LOW (Inspect on time-available basis) ☐ D NONE (No further action needed, complete current disposition form)

VI INFORMATION AVAILABLE FROM

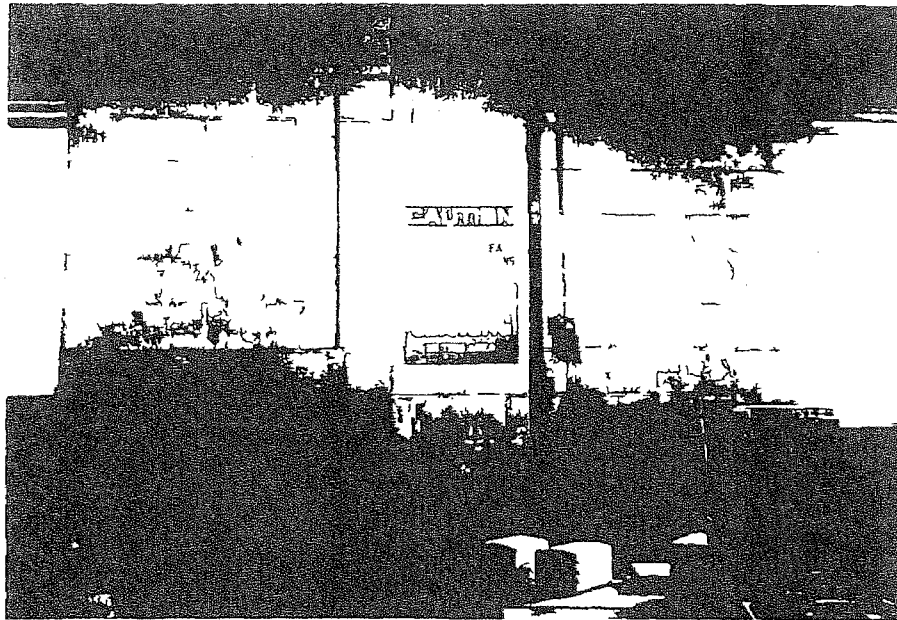
01 CONTACT Kevin Pfister	02 OF (Agency/Organization) EPA Region V		03 TELEPHONE NUMBER (312) 886 4448	
04 PERSON RESPONSIBLE FOR ASSESSMENT Lew S. Czajkowski	05 AGENCY	06 ORGANIZATION Resource Applications, Inc.	07 TELEPHONE NUMBER (312) 332 2230	08 DATE 10 / 22 / 93 MONTH DAY YEAR

**ATTACHMENT B**  
**VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS**

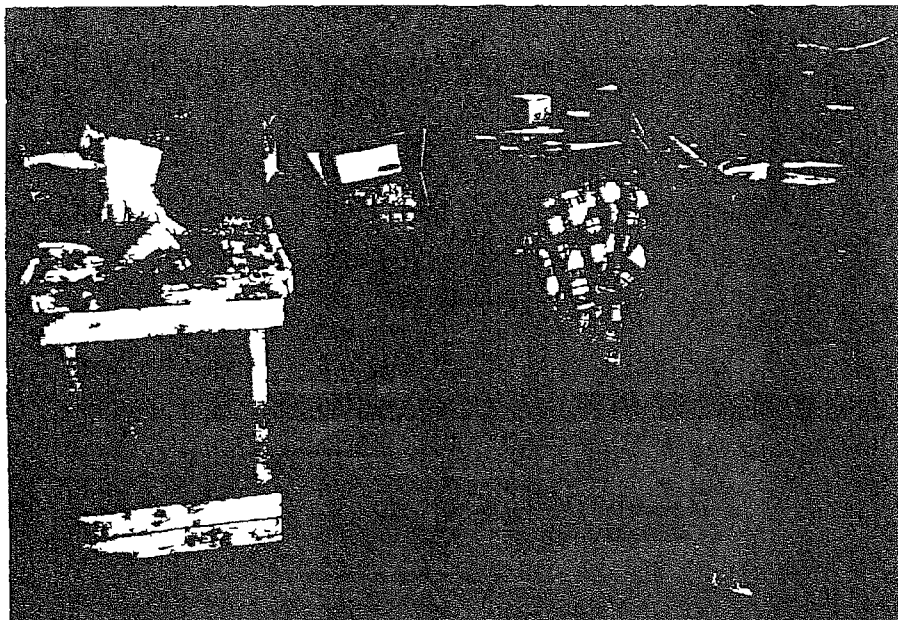
## VISUAL SITE INSPECTION SUMMARY

Johnson Fire Proof Door Co Inc  
415 Skokie Highway  
Lake Bluff, IL 60044  
ILD 010 224 335

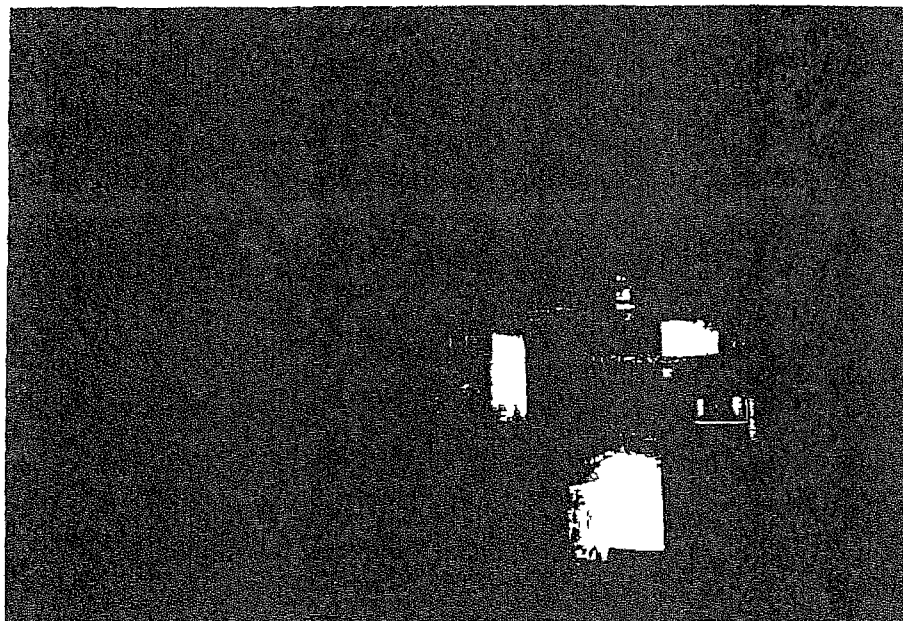
Date	October 22 1992
Primary Facility Representative Representative Telephone No	Dave Schmit Plant Manager (708) 295 3800
Inspection Team	Laura Czajkowski Resource Applications Inc (RAI) William Earle, RAI
Photographer	Laura Czajkowski RAI
Weather Conditions	Sunny temperature about 62°F
Summary of Activities	<p>The visual site inspection (VSI) began at 9 45 a m with an introductory meeting. The inspection team explained the purpose of the VSI and the agenda for the visit. The facility representative then discussed the facility's past and current operations, solid wastes generated and release history. The facility representative provided the inspection team with copies of requested documents.</p> <p>The VSI tour began at 11 05 a m. The first area toured was outdoors at the UST (AOC 1). Vent piping from the UST was observed. The Outdoor Storage Area (SWMU 3) was viewed next. Seventeen drums were stored closed. The tour was then conducted indoors and the Former Acetone AST (SWMU 2) was viewed. Unfinished security doors were stored in the area. The Former Acetone Storage Area (SWMU 1) was viewed next. Empty drums and a work bench were observed in the area.</p> <p>The tour concluded at 11 45 a m after which the inspection team held an exit meeting with facility representatives. The VSI was completed and the inspection team left the facility at 12 30 p m.</p>



Photograph No 1 Location SWMU 1  
 Orientation East Date 10/22/92  
 Description The Former Acetone Storage Area (SWMU 1) was located in this area



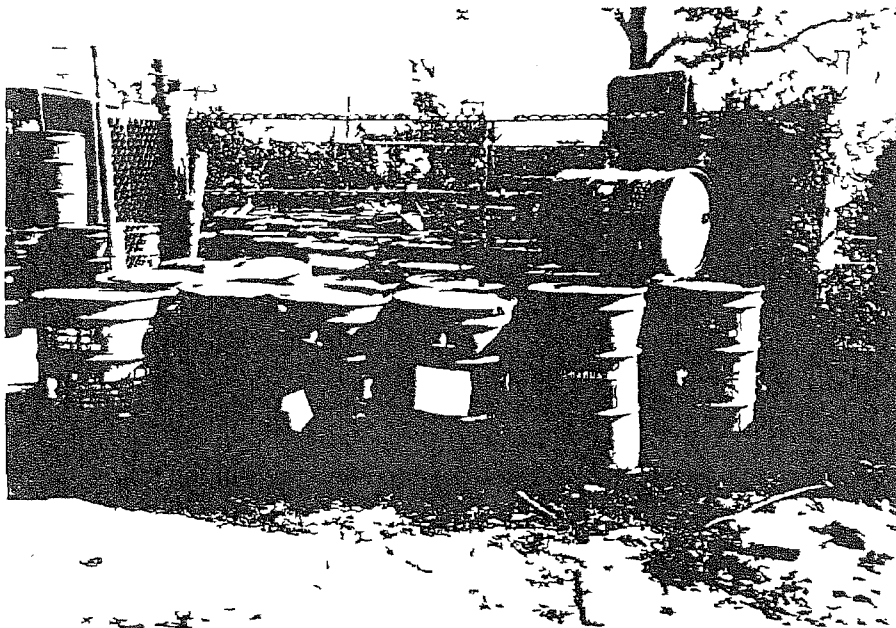
Photograph No 2 Location SWMU 1  
 Orientation East Date 10/22/92  
 Description This is a photograph of SWMU 1 Currently a work bench and empty drums are stored here



Photograph No 3 Location SWMU 2  
 Orientation East Date 10/22/92  
 Description The area on the left hand side of the photograph is where the Former Acetone AST (SWMU 2) was located Unfinished security doors are currently stored here



Photograph No 4 Location SWMU 2  
 Orientation East Date 10/22/92  
 Description This is another view of SWMU 2 Unfinished security doors are stored here



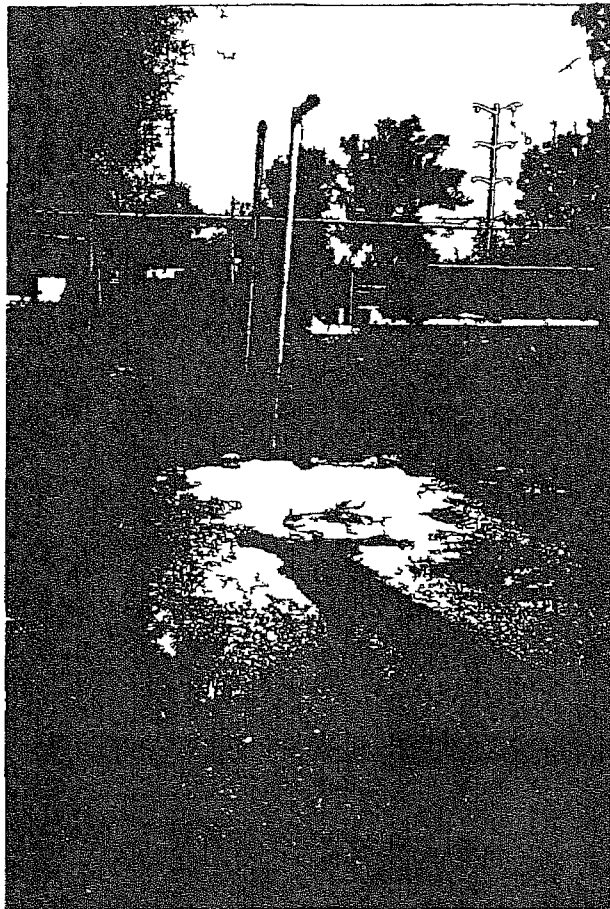
Photograph No 5

Orientation East

Description The 17 drums in the foreground of the picture managed waste paint (D001) The drums in the fenced area are empty This is the Outdoor Storage Area (SWMU 3)

Location SWMU 3

Date 10/22/92



Photograph No 6

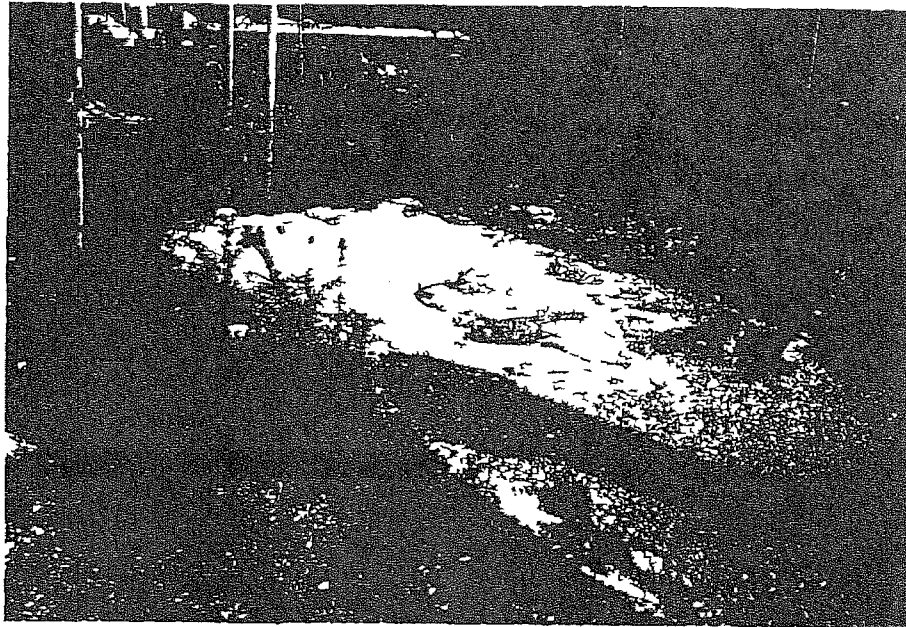
Orientation North

Description This is a photograph of the area above the UST (AOC 1) Vent piping is still present in the background of the photograph

Location AOC 1

Date 10/22/92





Photograph No 7  
Orientation North  
Description This is a closeup of the area of the UST (AOC 1)

Location AOC 1  
Date 10/22/92

**ATTACHMENT C**  
**VISUAL SITE INSPECTION FIELD NOTES**

Johnson Fire Proof Door Co, Inc

10/22/92

9 45 am Formerly Fanshew

South 10 mph, 62°F, sunny

N - businesses

E - railroad 2-shifts

S - Field, pond, Skokie Highway (rt 41)

W - Skokie highway

No releases, No injuries w/paint, NO USTs

MSDB for paint they use on their doors

DOOS waste paint sent out as - No, manifest lists  
wastes as D001

cut sheet metal, solder, stamp one side, turn it  
over, stamp the other side, paint on one side

employees - 110

1 North 40 x 20

maybe UST

2 North

UST

3 East

17 drums - waste paint - concrete, no cracks, no staining

4 East 16 x 20

Empty drums in Fenced yard

TC 10/22/92

8

Johnson Fire Proof Door Co, Inc

5 North

Northeast corner stormwater

Steel scrap dumpster

drain

10 cubic yard

Trampa

North stormwater drain

Ibora, IL

6 Tanks

East

Former AST / distillation Unit

7 East

Former AST

8 East

Hazardous Waste Storage Area (FORMER)

8-INCH-THICK Concrete floor

9 East

Hazardous Waste Storage Area (FORMER)

NO CRACKS

NO DRAINS

10

Southwest paint booth

replace filters 1 every 2 weeks

 $\frac{1}{2}$  drum every week +  $\frac{1}{2}$ 

11

Southwest paint booth

10/20/20

Johnson Fire Proof Door Co, Inc  
used Detrick - want someone else  
Scout Transportation Company ~~##~~  
to Chief Supply Corp  
Haskell, OK

Detrick out of Birmingham, Michigan

parking lot south side of facility

12 South

pond located on site

stormwater drain empties into pond on north end  
dumps in water

west side of parking lot water runoff to stormwater  
pipe that leads to pond

13 West side of the facility

North parking lot for limosines

tour concluded 11 45am

12 30pm left the facility

6/22/92

7/2 10/22/92